

Attorney Docket No. 3477-110

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: O'Dowd et al.

Confirmation No. 3131

Application No.: 10/509,787

Group Art Unit: 1653

I.A. Filing Date: April 11, 2003

For: *METHOD OF IDENTIFYING TRANSMEMBRANE PROTEIN-INTERACTING COMPOUNDS*

Date: May 23, 2005

Mail Stop PCT
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS

Sir:

In response to the March 21, 2005 Notification of Missing Requirements under 35 U.S.C. §371 in the United States Designated/Elected Office issued regarding the above-identified patent application, enclosed are:

- 1) an executed Declaration and Power of Attorney document (4 pages);
- 2) a copy of the Notification;
- 3) Amendment to Enter the Corrected Sequence Listing;
- 4) Substitute Paper copy of the Sequence Listing;
- 5) Substitute Sequence Listing on diskette;
- 6) a check in the amount of \$65.00 as payment of the surcharge.

Applicant asserts small entity status for this application in accordance with 37 C.F.R. 1.27. The amount enclosed is believed to be correct. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No 50-0220.

Respectfully submitted,

05/26/2005 GFREY1 00000067 10509787
 01 FC:2617 65.00 0P



Karen A. Magri
 Registration No. 41,965

CERTIFICATE OF EXPRESS MAILING UNDER 37 CFR 1.10

"Express Mail" mailing label number: EV674755711US

Date of Deposit: May 23, 2005

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Sarah Brunmeier

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Customer No. 20792

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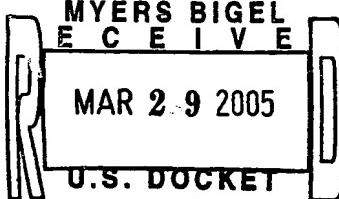
UNITED STATES PATENT AND TRADEMARK OFFICE

KAM

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United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/509,787	Brian O'Dowd	3477-110
INTERNATIONAL APPLICATION NO.		
PCT/CA03/00542		
I.A. FILING DATE		PRIORITY DATE
04/11/2003		04/12/2002
CONFIRMATION NO. 3131		
371 FORMALITIES LETTER		
 *OC000000015148181*		

20792
MYERS BIGEL SIBLEY & SAJOVEC
PO BOX 37428
RALEIGH, NC 27627



Date Mailed: 03/21/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 09/30/2004
- Copy of the International Search Report filed on 09/30/2004
- Copy of IPE Report filed on 09/30/2004
- Preliminary Amendments filed on 09/30/2004
- Biochemical Sequence Diskette filed on 09/30/2004
- Biochemical Sequence Listing filed on 09/30/2004
- U.S. Basic National Fees filed on 09/30/2004
- Priority Documents filed on 09/30/2004

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- \$65 Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$65** for a Small Entity:

- **\$65** Late oath or declaration Surcharge.

The following items **MUST** be furnished within the period set forth below:

- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):
 - Does not comply, corrected diskette needed (see attachment)
 - **APPLICANT MUST PROVIDE:**
 - An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.
- For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:
 - For Rules Interpretation, call (703) 308-4216
 - To Purchase PatentIn Software, call (703) 306-2600
 - For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

PAULETTE R KIDWELL

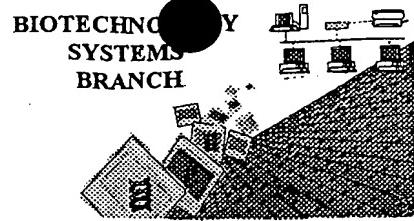
Telephone: (703) 308-9140 EXT 216

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/509,787	PCT/CA03/00542	3477-110

FORM PCT/DO/EO/905 (371 Formalities Notice)

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/509,787
Source: PG10
Date Processed by STIC: 10/8/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED**SUGGESTED CORRECTION**SERIAL NUMBER: 10/509,787**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

- 1 Wrapped Nucleic
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was **not saved** in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(ii) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220>
→ Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/509,787

DATE: 10/08/2004
TIME: 11:46:11

Input Set : A:\3347-110 Sequence Listing CRF.TXT
Output Set: N:\CRF4\10082004\J509787.raw

*Dose Not Comply
Connected Diskette Needed*

Pg 2-6

3 <110> APPLICANT: O'DOWD, BRIAN F.
4 GEORGE, SUSAN R.
6 <120> TITLE OF INVENTION: METHOD OF IDENTIFYING TRANSMEMBRANE PROTEIN-INTERACTING COMPOUNDS
8 <130> FILE REFERENCE: 3477-110
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/509,787
C--> 11 <141> CURRENT FILING DATE: 2004-09-30
13 <150> PRIOR APPLICATION NUMBER: US 60/371,704
14 <151> PRIOR FILING DATE: 2002-04-12
16 <150> PRIOR APPLICATION NUMBER: US 60/442,556
17 <151> PRIOR FILING DATE: 2003-01-27
19 <150> PRIOR APPLICATION NUMBER: US 60/422,891
20 <151> PRIOR FILING DATE: 2002-11-01
22 <150> PRIOR APPLICATION NUMBER: US 60/387,570
23 <151> PRIOR FILING DATE: 2002-06-12
25 <150> PRIOR APPLICATION NUMBER: US 60/379,419
26 <151> PRIOR FILING DATE: 2002-05-13
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34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial sequence
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38 <223> OTHER INFORMATION: Primer
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/509,787

DATE: 10/08/2004

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86 <223> OTHER INFORMATION: Peptide
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91 1           5           10          15
93 Thr Leu Leu
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141 <211> LENGTH: 84
142 <212> TYPE: DNA
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*Insufficient explanation of Artificial Sequence
 (give source of genetic material
 silent II
 in Euro
 summary
 sheet*

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/509,787

DATE: 10/08/2004

TIME: 11:46:11

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 Output Set: N:\CRF4\10082004\J509787.raw

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195 20 25

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204 <223> OTHER INFORMATION: Primer

206 <400> SEQUENCE: 13

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/509,787

DATE: 10/08/2004

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 300 <213> ORGANISM: Artificial sequence

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/509,787

DATE: 10/08/2004

TIME: 11:46:11

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The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.